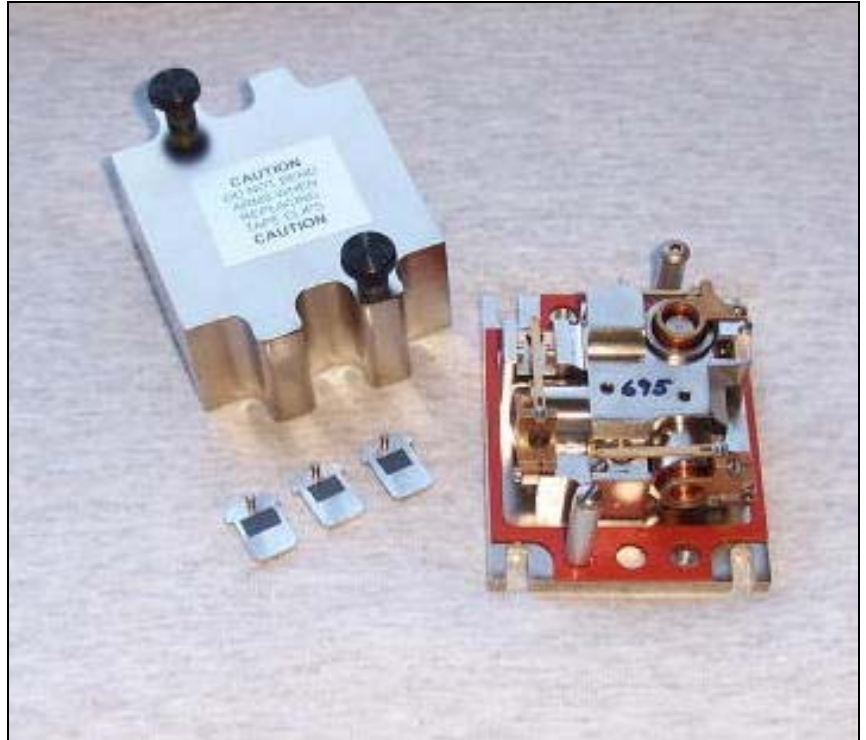


TRANSPEAK SERVICES

Model PRA-103 Peak Recording Accelerograph

FEATURES

- No power required
- Compact, rugged construction
- Three axes: x, y, & z
- Choice of full-scale range:
± 0.5, 1, 2, or 5 g
- Choice of temperature range:
Standard or high
- Qualified for nuclear power applications (IEE 344)
- Easy to read



DESCRIPTION

Model PRA-103 Peak Recording Accelerograph detects and records peak amplitudes of low-frequency accelerations caused by seismic disturbances, strong winds, blasting, pile driving, or similar vibrations. *PRA-103's* provide a permanent record of peak accelerations on magnetic tape clips.

Applications for *Model PRA-103* include back-up of film, tape, or digital accelerograph systems; and independent non-powered acceleration monitoring of drilling rigs, dams, nuclear power plants, bridges, buildings, or offshore structures. *PRA-103's* are also used to monitor shipping-induced accelerations while transporting delicate items.

Model PRA-103 provides a peak-acceleration record by erasing pre-recorded lines on magnetic tape clips. The lines are erased by a non-contact permanent stylus; one for each axis. Full-scale erasure is $\pm 0.100''$ (2.54 mm).

Peak acceleration is measured as the erasure amplitude from the zero baseline. Measurements are made while using a microscope or magnifying viewer equipped with a calibrated reticle.

The magnetic tape clips are easy to remove and replace. Each *PRA-103* is shipped with three tape clips. Accessories that can be reordered include tape clips, tape strips, magnifier, and developer and fixative solutions.

MODEL PRA-103 SPECIFICATIONS

General characteristics

Application:	Peak-acceleration recording on drilling rigs, dams, nuclear power plants, bridges, etc.
Configuration:	Three mutually orthogonal axes (x, y, & z)
Full-scale range:	± 0.5 , ± 1 , ± 2 , or ± 5 g
Natural frequency:	0—11 Hz (± 0.5 -g full-scale version); 0—16 Hz (± 1 -g full-scale version); 0—23 Hz (± 2 -g full-scale version); 0—30 Hz (± 5 -g full-scale version)
Accuracy & resolution:	$\pm 5\%$ of full scale

Sensor element

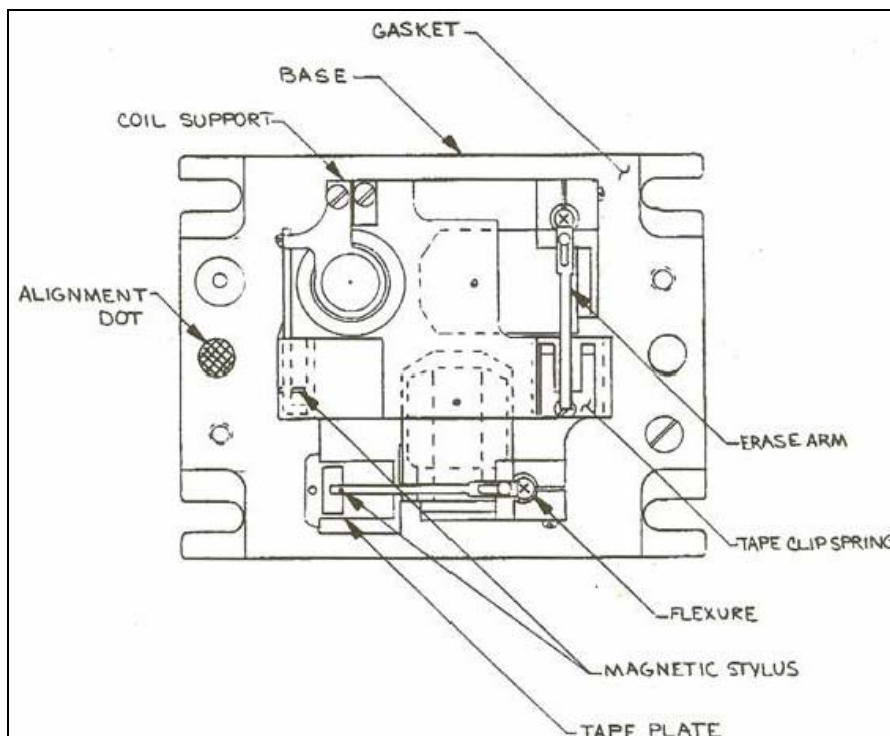
Type:	Short period, torsional
Damping:	0.5 of critical; electromagnetic

Environment/housing

Enclosure dimensions:	2.25" x 3.25" x 4" (57.1 x 82.5 x 101.6 mm)
Weight:	16 oz (0.454 kg)
Temperature range:	Standard: -20° to $+150^{\circ}$ F (-29° to $+65^{\circ}$ C) High: -20° to $+300^{\circ}$ F (-29° to $+149^{\circ}$ C)
Power required:	None
Please specify with order:	Full-scale range & temperature range

Accessories

Developer kit:	Case containing 2-oz bottle of developer, 2-oz bottle of fixative, tweezers, & 7x magnifier.
Magnifier:	Magnifier is equipped with a mm-calibrated reticle for measuring the amplitude of erasure on developed clips.
Magnetic-tape clip sets:	Replacement clips (3 clips per set) with pre-recorded magnetic tape (standard or high temp.).
Pre-recorded tape strips:	18"-long (457 mm) x 1/4"-wide (6.4 mm) strip of pre-recorded tape (standard or high temp.).
Developer solution:	KD-30; 8-oz can
Fixative solution:	KF-38; 2-oz jar



Manufactured by TransPeak Services

(formerly manufactured by Teledyne Geotech & Terra Technology Corp.)

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